

# HAVE A CLEAN SHOP

LEIMAN BROS.

Polishing

Dust Collecting

Outfit . . . \$225.00

— : PATENTED : —

The most efficient means of collecting polishing dust ever devised—a self-contained outfit which earns its cost in a very short time and maintains a steady income for its owner by means of the recovery of the valuable metallic particles in the dust.

**No Other Outfit Like It  
No Other Outfit Can Be Like It**

Combines wet and dry system of dust collecting. The fine dust not actually removed by the dry separator sinks to the bottom of the water tank—but the amount is so very small as to make it necessary to clean the water tank only once in about 6 months in order to get the value from same. The current of pure air combined with the dust, by means of agitation, keeps the water in copper tank sweet and pure. Nothing to become foul and ill smelling where there is a constant current of air. The bulk of the dust is held in the upper boxes in the inside bags and easily and quickly removed.

**Ball Bearing Fan Shaft**

**TAKES ALL STRAIN FROM  
MOTOR ARMATURE SHAFT**

Electrically Lighted Dust Hoods puts the light where you want it without getting in your way.

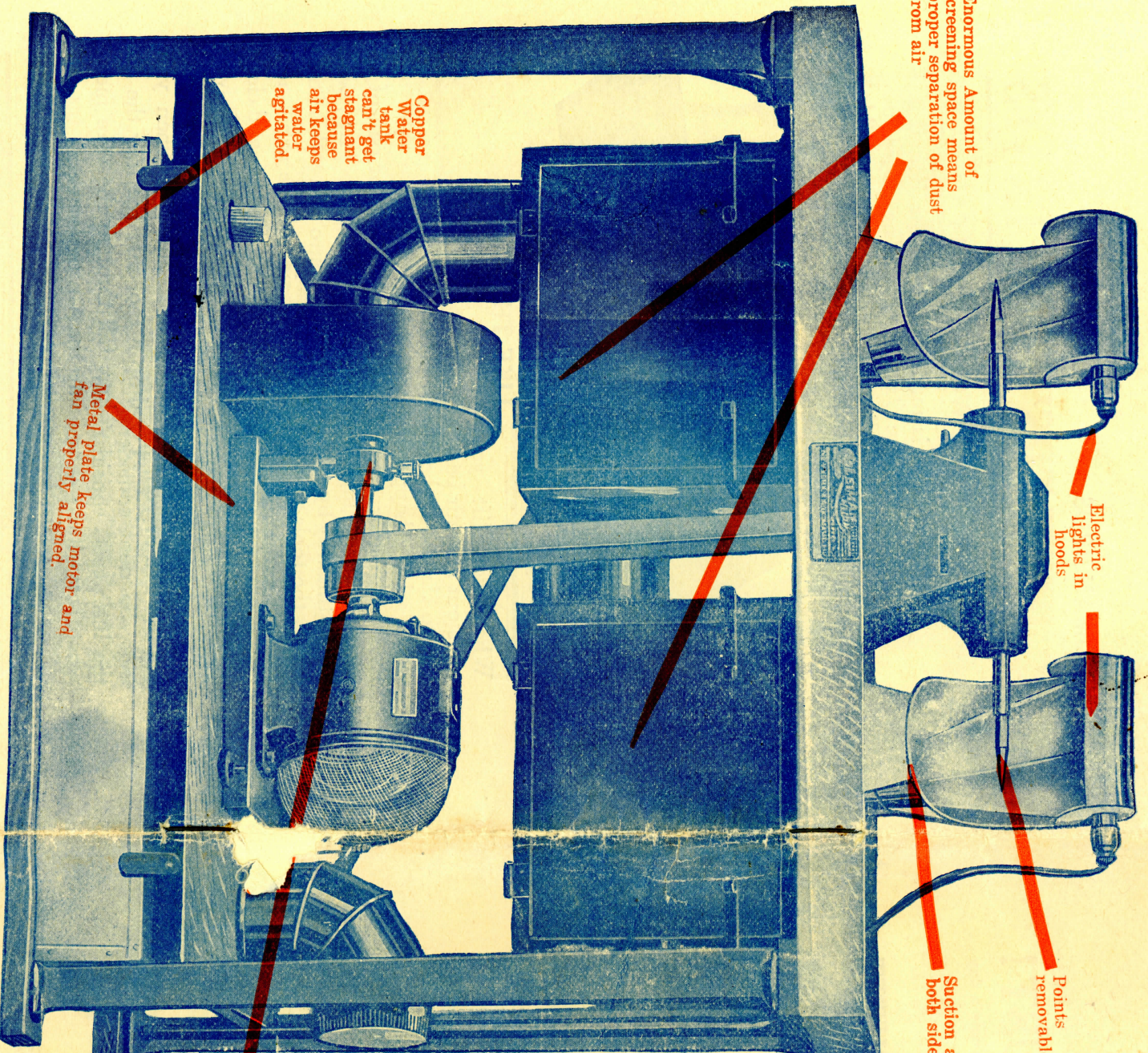
LEIMAN BROS.

Makers of good 81 WALKER ST., NEW YORK CITY

Machinery for 35

years.

SHOW AT 23 WALKER ST.



Enormous Amount of screening space means proper separation of dust from air

Electric lights in hoods

Points removable

Suction at both sides.

Copper water tank can't get stagnant because air keeps water agitated.

Metal plate keeps motor and fan properly aligned.

**Guaranteed The Only Real Dust Collector**

— NO MATTER WHAT YOU PAY —



# **Polishing Dust is Dangerous**

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## **to the Operator - -**

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The tiny, metallic particles cause great harm to the lungs as well as other organs of the body

# **LEIMAN BROS. POLISHING DUST COLLECTOR**

— : PATENTED : —

prevents these particles from escaping—removes the danger—and collecting the dust, it naturally keeps your work-room clean—any user will tell you how pleased he is and how he gets his money back in the sweeps returns.

You can afford one—no matter if you only have stock to buff occasionally

**It Pays  
For  
Itself!**

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MAKERS OF GOOD MACHINERY FOR 35 YEARS



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## THE NEW MODEL

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LEIMAN  
BROS.

# POLISHING DUST COLLECTOR

— PATENTED —

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with Ball Bearings and Electrically  
Lighted Dust Hoods is now selling  
at the new

**REDUCED PRICE \$225.00**

**CLOSE TO PRODUCTION COST**

When you do polishing work dust is bound to arise — removing metallic particles in the operation. What becomes of these particles? Most likely they are now floating out of your windows and doors, or keeping your shop in a very unclean condition.

## THE DUST WILL BUY THIS

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## DUST COLLECTOR

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The strong suction current of air at both hoods sucks in the dust. It gets into the tanks underneath the bench and may be removed at will and refined. No matter what you pay for an outfit of this kind it will eventually pay for itself in this way—but with the new reduced price it does it very quickly, and ever after you have this income from the gold recovered from the dust for yourself

### DON'T BREATHE POLISHING DUST

get rid of it. You'll like your shop better

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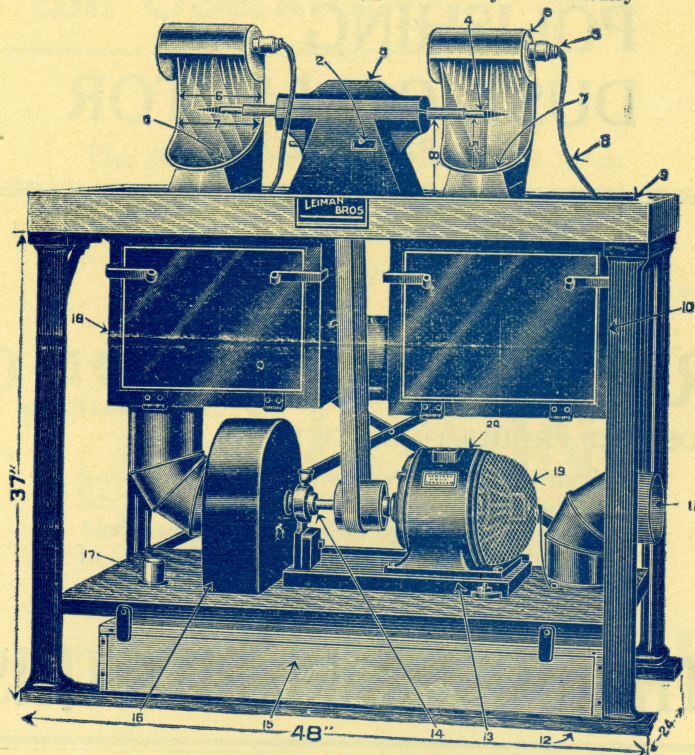


# SAVE YOUR HEALTH---

## POLISHING DUST COLLECTING OUTFIT

— MODEL A OUTFIT—With  $\frac{1}{2}$  H.P. Motor —

For One or Two Operators, Alternately or Steadily



- 1—Strong suction here.
- 2—Lever to start and stop polishing head independent of the motor.
- 3—Cover enclosing belt & pulleys.
- 4—Removable taper points both ends of spindle.
- 5—Electric light attachment on each hood.
- 6—Adjustable flap on both hoods.
- 7—Strong suction here.
- 8—Electric light cord on hoods.
- 9—Bench covered with sheet zinc.
- 10—Cabinet to hold dust in inside cloth bag.
- 11—Where the air comes out after passing through the machine and being freed of the dust—the air is pure and clean as it comes out here.
- 12—Wooden skids on which machine is mounted may be left on as a good base.
- 13—Iron plate on which motor is mounted—being solid keeps fan shaft accurately aligned.
- 14—Fan shaft ball bearing supports the weight of the fan, relieving the strain on the motor armature shaft thereby protecting the motor.
- 15—Copper water tank—there is no odor or other objectionable features—the constant current of air surging through the water keeps it sweet.
- 16—Suction fan and housing.
- 17—Refilling inlet to water tank.
- 18—Cabinet to hold dust in inside cloth bag.
- 19—Wire screen protection on motor.
- 20—Electric Motor.

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# SAVE YOUR HEALTH

## POLISHING DUST COLLECTING OUTFIT

### MODEL A OUTFIT — With $\frac{1}{2}$ hp. Motor.

For One or Two Operators, Alternately or Steadily

For use with buffs up to 8 inches diameter

Lengths of Spindle, regular, each side of head including detachable taper points  $5\frac{1}{2}$  inches, on extended shaft model the left-hand side extends 9 inches from the head with larger dust hood. Diameter of spindle  $\frac{7}{8}$  inch, height to centre of spindle 8 inches, equipped with loose and tight pulleys. Floor space about 24x48 inches, weight about 400 lbs. Crated 475 lbs.; boxed 615 lbs., 35 cubic feet.

BE SURE TO SPECIFY KIND OF ELECTRIC CURRENT available for one-half horsepower with the voltage, phase and cycles.

For dental work we supply detachable tapers instead of buff arbors so that Ritter attachments may be used. Also zinc hoods with removable water pans and electric light attachment.

Always  
Specify Volts,  
Cycles, Phase  
of Current  
(60 Cycles,  
230 Volts is  
regular)

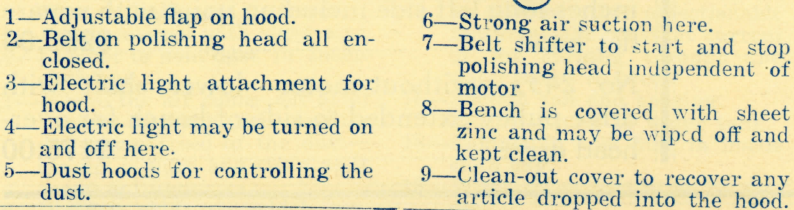
No 2422—Model A as shown, D C. or A. C.....	\$225.00
No 2766—has set of flanges and point on right hand spindle with square flat hood.....	\$232.50
No. 2768—has spindle 9 inches long including point on left hand side with square flat hood.....	\$230.00
Where More Power is desired.	No. 2423—with 1 h.p. motor instead of $\frac{1}{2}$ h.p.....
	\$250.00
	No 2771—with 1 h.p. motor instead of $\frac{1}{2}$ h.p. and with set of flanges and point on right hand side of spindle with square flat hood.....
	\$257.50
	No. 2770—with 1 H.P Motor with spindle 9 inches long left side including point with square flat hood .....
	\$255.00
	No. 2433—without motor—lower shaft with drive pulley extended to side of bench for over- head drive .....
	\$175.00

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**MODEL B OUTFIT—With 1-3 Motor—**  
**:: For One Operator Steadily or Two Operators Alternately ::**

**:: For One Operator Steadily or Two Operators Alternately ::**



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## POLISHING DUST COLLECTING OUTFIT—

(Continued)—

- |  |   |
|--|---|
| <p>10—Ball bearing shaft hanger takes strain off the motor armature shaft</p> <p>11—Electric motor</p> <p>12—The exhaust air comes out here after passing through the cloth bag in the square cabinet and also through the water bath in lower tank.</p> <p>13—Iron base plate holding ball bearing shaft hanger and motor—cannot warp or twist maintaining true alignment of shaft.</p> <p>14—Copper water tank which insures against any very fine</p> | <p>dust escaping.</p> <p>15—Wooden plug in inlet through which water is placed in the copper tank.</p> <p>16—Suction elbow connecting dust cabinet with suction fan to the right.</p> <p>17—Suction dust cabinet which has fine linen bag to catch the dust—practically all the dust is held here—very fine dust which might go through the linen is caught in the water tank beneath.</p> <p>18—Strong suction here.</p> |
|--|---|

For use with buffs up to 4 inches diameter

Length of Spindle, regular, each side of head including detachable taper points  $4\frac{1}{4}$  inches, on extended shaft model the left hand side extends 8 inches from the head with larger dust hood. Diameter of spindle  $\frac{3}{4}$  inch, height to centre of spindle 7 inches, equipped with loose and tight pulleys. Floor space about 20x40 inches. Weight about 325 lbs. Crated 375 lbs. Boxed 540 lbs. 26 cu. ft.

**BE SURE TO SPECIFY KIND OF ELECTRIC CURRENT** available for one third horsepower with voltage, phase and cycles.

For dental work we supply detachable tapers instead of buff arbors so that Ritter dental attachments may be used. Also zinc hoods with removable water pans and electric light attachments.

**Always specify volts, cycles, phase of current (60 cycles 230 volts as regular)**

No. 2421 Model B as shown—D C. or A. C.....	\$180.00
No. 2767 has set flanges and point on Right hand Spindle with square flat hood.....	\$187.50
No. 2769 has spindle 8 in. long including point on left hand side with square flat hood.....	\$185.00
No. 2432 — without motor — lower shaft with drive pulley extended to side of bench for overhead drive .....	\$147.00

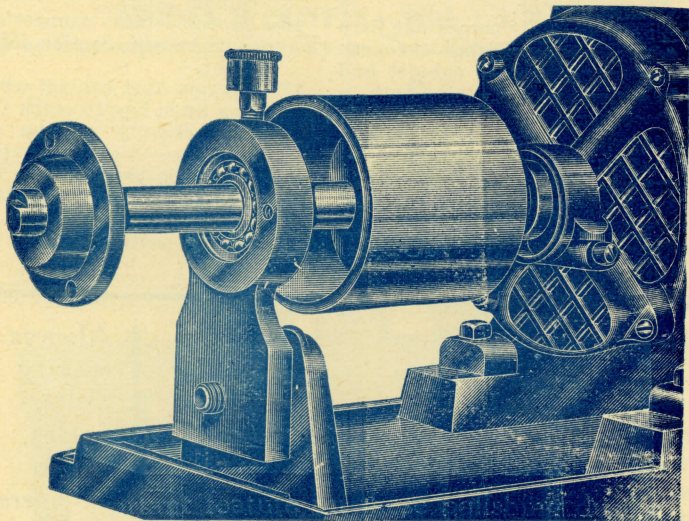
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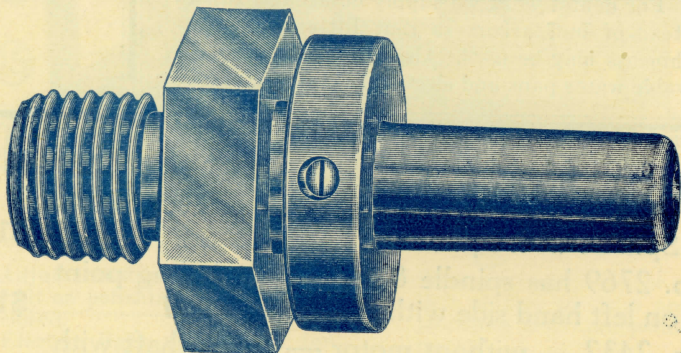
**BALL BEARINGS ARE —  
A VALUABLE  
FEATURE**

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A very important feature on these polishing dust collecting outfits is here shown—the ball bearing which supports the shaft one end of which is the motor armature and the other the fan—The bearing relieves the motor of all strain reducing the possibility of electrical trouble.—

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**Ritter Style Arbor**

These are supplied on Model A and B outfits for dental laboratories instead of the regular taper threaded points—they hold Ritter tools

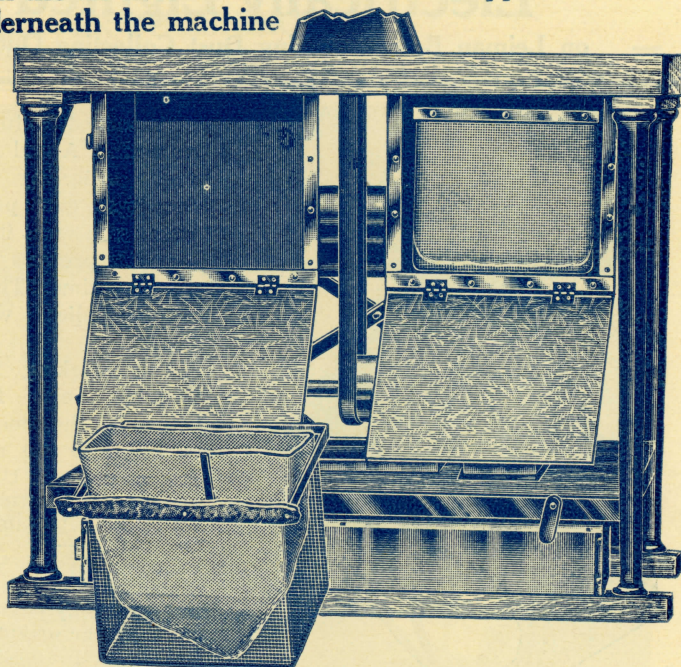
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## BULK OF THE DUST CAUGHT

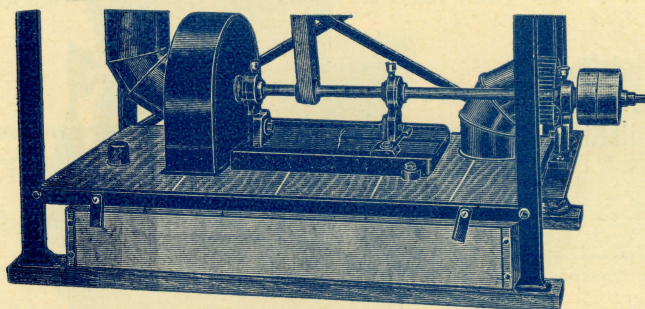
IN THE CLOTH BAGS — Balance is washed from the air in the water bath in the copper tank underneath the machine



This picture shows the dust collecting system used in Leiman Bros. polishing dust collecting outfits — the most improved and efficient dust collector ever produced.

TO OPERATE FROM YOUR OWN

OVERHEAD SHAFT OR MOTOR ON WALL OR CEILING —



When an outfit is ordered without the motor we supply it as shown with the extra ball-bearing hangers in the place of the motor. This hanger supports shaft which

extends to the right side of the outfit having loose and tight pulleys—for overhead shaft or motor drive. Your motor cannot be mounted directly on machine as ours is because of accuracy of measurement & fitting required.

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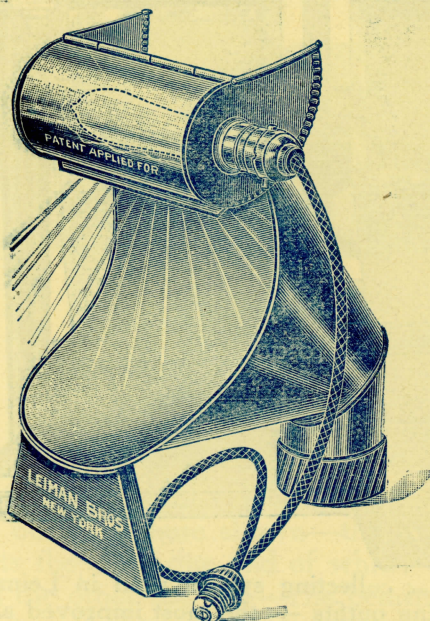
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# DUST HOODS Electrically Lighted

— on Leiman Bros. Polishing Dust Collecting Outfits —

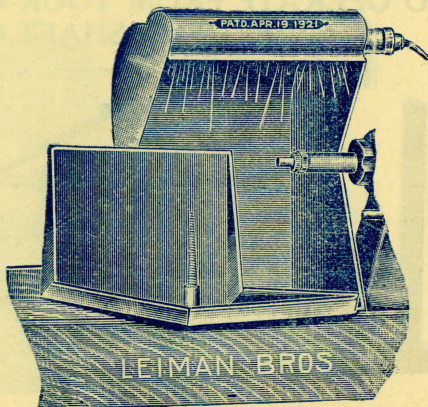


FOR DENTAL WORK —

An added feature supplied on models A and B polishing dust collecting outfits—a drop light can't put the light where you want it. This does—and it protects the eyes at the same time. (The bulbs are not supplied with these hoods)

Makes working more comfortable, hence faster and better. All the time the dust is sucked into the machine as fast as created. Using one of these dust collecting outfits is really like putting money in the bank—the gold dust collected in the machine—which was formerly entirely lost—not only pays back what the machine originally cost—but it keeps on paying you at the same rate—you bank this and all the time your shop is cleaner

Wet and Dry  
pumice grinding  
and polishing



Zinc dust hood and water pan showing taper threaded point and Ritter Style Arbor

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## USING MODEL A

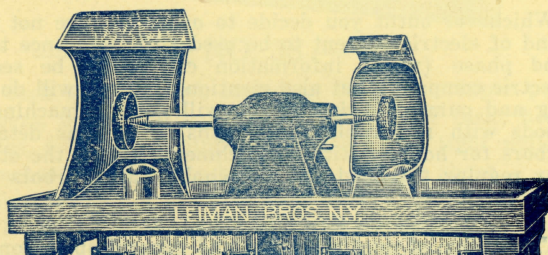
### POLISHING DUST COLLECTOR

### FOR SILVER POLISHING



Some times it becomes necessary to do quite a lot of silver polishing either in the repair department or new stock goods—then specify model A with 1 h.p. motor No 2770—

—  
THIS PICTURE  
shows how we  
furnish it with



a long spindle on left hand side with large square hood—

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FOR

# DENTAL LABORATORIES

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DOUBLE  
DENTAL POLISHING  
DUST COLLECTING  
OUTFIT.

— MODEL NO. 38 —

**No. 2434—For Wet and Dry Pumice and  
Rouge Polishing — One-half Horsepower.**

FOR DENTAL WORK—Both the model B outfit for one operator continuously for two alternately or the model A outfit for two operators continuously may also be used for this work. (See description and illustrations.) Specify this work and Ritter tapers, detachable, for ends of spindles will be supplied instead of regular taper points as well as dental hoods with water pans.

Every dental laboratory however large or small, as well as every practitioner doing either a small or large amount of polishing has use for an outfit of this kind—a small amount of work calls for the model B outfit, while busy laboratories require the model A outfit—or better still model No. 38 outfit shown on opposite page—having a  $\frac{1}{2}$  horsepower motor also.

We call your particular attention not only to the dimensions of the entire machine itself but to the sizes of the polishing heads in each instance.

Model 38 outfit just mentioned has polishing heads with ball bearings so that the running is very light, enabling us to operate both with the  $\frac{1}{2}$  horsepower motor

Whichever outfit you decide to order be sure not only to mention the kind of electric current to be used with reference to the voltage, cycles and phase (which information can easily be secured of your local electric company) but also mention that you will do wet and dry polishing and pumice work and you will get the machine with suitable dust hoods with removable water pans as well as detachable Ritter taper arbors for holding Ritter attachments (if on the other hand you desire our regular threaded and detachable taper arbors instead please mention this)

The system of dust collection and general operation of the outfits is the same in each case—while electric light attachments on hoods are supplied for dental work with the special dental hoods.

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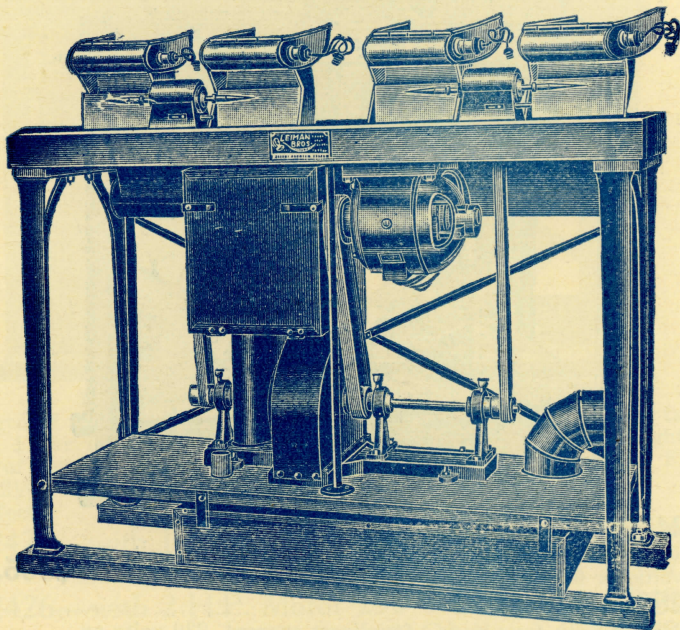
FOR

# DENTAL LABORATORIES

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DOUBLE  
DENTAL POLISHING  
DUST COLLECTING  
OUTFIT

No. 2434—Model 38—For Wet and dry Pumice and  
Rouge Polishing — One-half Horsepower.



— MODEL NO. 38 —

Length of spindle each side of head, including detachable taper point, or with Ritter tapers, 5 inches; diameter of spindles  $\frac{1}{2}$  inch; height to centre of spindles, 4 inches; equipped with loose and tight pulleys, floor space 19x57 inches; 38 inches to bench top. Weight about lbs. Crated lbs., Boxed lbs.; Cubic feet.

BE SURE TO SPECIFY KIND OF ELECTRIC CURRENT available for one-half horsepower, with the voltage, phase and cycles.

— NO. 2434—MODEL NO. 38—\$335.00 —

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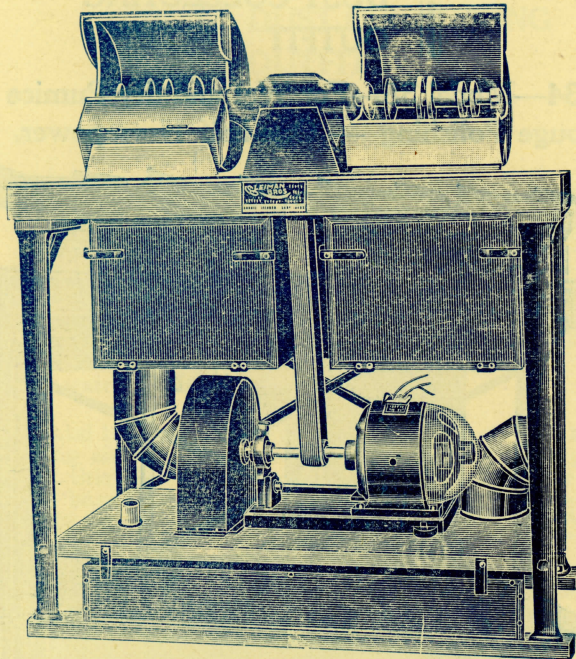


# FOR GOLD PEN NIBS

## POLISHING DUST COLLECTING OUTFIT

— MODEL 22 —

For Gold Pens — with 1 H P .Motor



**NO. 2430—Model 22i—**

For use with six buffs as shown—for direct current, 230 volts, or 60 cycles..... **\$305.00**

**NO. 2888—Model 22—**

For use with four buffs—for direct current, 230 volts or 60 cycles..... **\$295.00**

**NO. 2431—Model 22c—**

For four buffs—without motor, with lower fan shaft extended with pulleys for overhead shaft or motor drive **\$235.00**

**NO. 2809—Model 22l—**

For 6 buffs without motor—lower fan shaft extended with pulleys for overhead shaft or motor drive..... **\$245.00**

Length of spindle each side of polishing head 11 inches; diameter of spindle 1 3-16 inches, height to centre of spindle 9 1/4 inches; equipped with 3 inch pulley, floor space about 23x47 inches, weight about 410 lbs. Crated 475 lbs., Boxed 625 lbs.; 35 Cubic Feet

BE SURE TO SPECIFY THE KIND OF CURRENT available for one horsepower.

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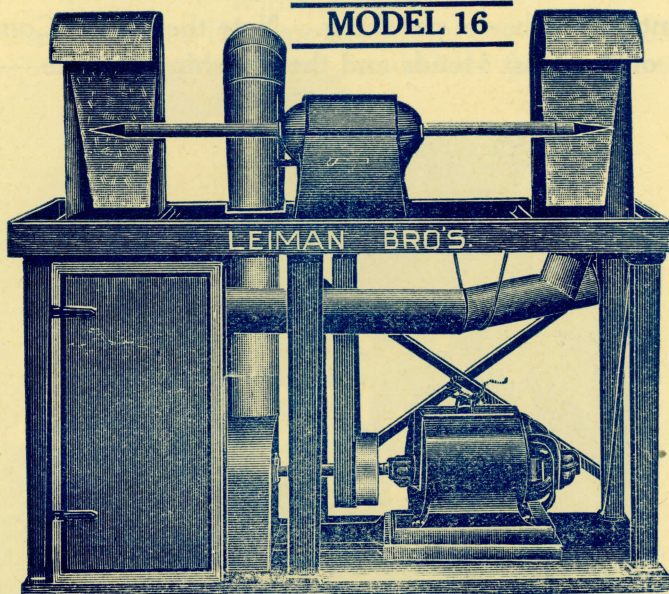
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# FOR BUFFING SILVER and PLATE

## POLISHING DUST COLLECTING OUTFIT

With One, Two or Three Horsepower Motor for Buffing Silver and Other Large Wares



For use with Buffs up to 12 inches diameter

Length of regular spindle each side of head, including detachable taper points, 11 or more inches. Diameter of spindle,  $1\frac{1}{4}$  inches, height to centre of spindle, 12 inches, equipped with loose and tight pulleys. Floor space  $2\frac{1}{2} \times 5$  feet—weight about      lbs, crated      lbs, boxed      lbs, cubic feet.

No. 2425—with 1 H.P. Motor	230 V D C.	\$317.00
	60 Cycles	\$317.00
No. 2426—with 2 H.P. Motor	230 V D C.	\$340.00
	60 Cycles	\$352.00
No. 2427—with 3 H.P. Motor	230 V D.C.	\$383.00
	60 Cycles	\$378.00

BE SURE TO SPECIFY KIND OF CURRENT available for the horsepower selected, with the voltage, phase and cycles.

This outfit is especially adapted for the use of silversmiths or manufacturers doing refinishing work but not for new manufacturing. The dust is drawn into the tank by the powerful suction at the hoods. Any valuable metallic particles are easily recovered from the dust. The outfit is heavily constructed and shipped all set up and ready to run. The exhaust outlet for the escape of the air is shown at the left hand rear of the polishing head. The air having been relieved of the dust is allowed to escape here, but the pipe may be extended to the window or a flue.

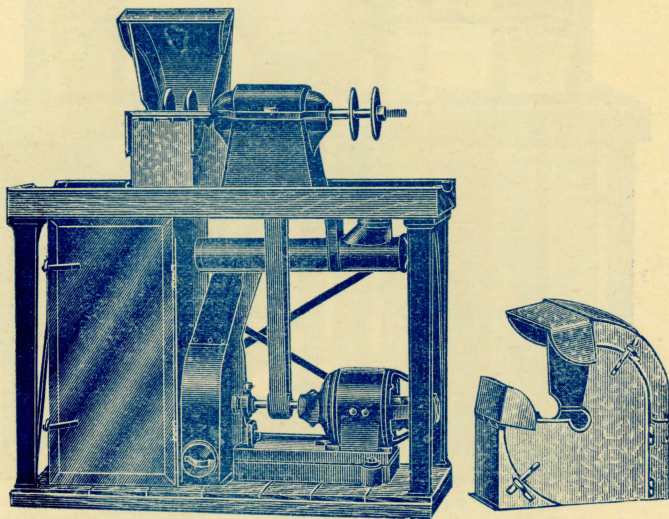
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## FOR FOUNTAIN PEN BARRELS —

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No. 2806—Model 26 Polishing Outfit, 1 Horsepower. For Fountain pen barrel polishing.—Note the special Construction of the Dust Hoods and the Polishing Spindle——



———— : \$350.00 : ————  
 For D. C. 230 Volts or 60 Cycles  
 Current.

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Bench top.....	24x48
Height to top.....	34½
Height to center spindle.....	9¼
Bufs, 12 inches diameter, 3 to 6 inches wide, 1 inch hole	
Diameter of spindle.....	1¼
Weight, about.....	450 lbs.
Crated, .....	525 lbs.
Boxed, .....	675 lbs.
Cubic feet .....	35

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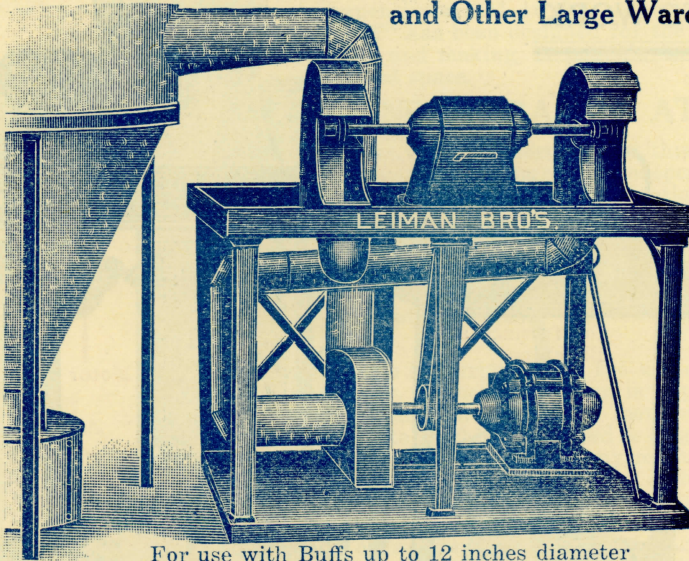
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# FOR **BUFFING SILVER STOCKS**

## — MODEL 31 — **POLISHING DUST COLLECTING OUTFIT**

With Cyclone  
One, Two or Three Horsepower Motor for Buffing Silver  
and Other Large Wares



For use with Buffs up to 12 inches diameter  
Length of spindle each side of head, including detachable taper  
points 11 inches, diameter of spindle,  $1\frac{1}{4}$  inches, height to centre of  
spindle, 12 inches, equipped with loose and tight pulleys.

Bench floor space about 31x53 inches. With Cyclone tank as shown  
35x86 inches. Weight about      lbs. Crated      lbs., boxed      lbs.,  
cubic feet.

NO. 2792—with 1 H. P Motor—

**230 V. D. C. .... \$317.00—60 Cycles..... \$317.00**

NO. 2793—with 2 H. P Motor—

**230 V. D. C. .... \$340.00—60 Cycles..... \$352.00**

NO. 2794—with 3 H. P H Motor—

**230 V. D. C. .... \$383.00—60 Cycles..... \$378.00**

BE SURE TO SPECIFY KIND OF CURRENT available for the  
horsepower selected with the voltage, phase and cycles.

In many cases where it is not desirable to save the dust on account  
of its value, the cyclone outfit shown will be found best adapted—also  
where the work done produces a large amount of lint from the buffs.  
All the dust drawn into the hoods by the powerful suction of air passes  
directly to the cyclone tank shown at the left of the machine and is  
finally deposited in the lower tank to be removed at will. The exhaust  
outlet may be extended out of the window or to a flue. If the dust  
has any value and it is desired to save it, then our other outfits should  
be investigated. For finishing but not for new manufacturing work.

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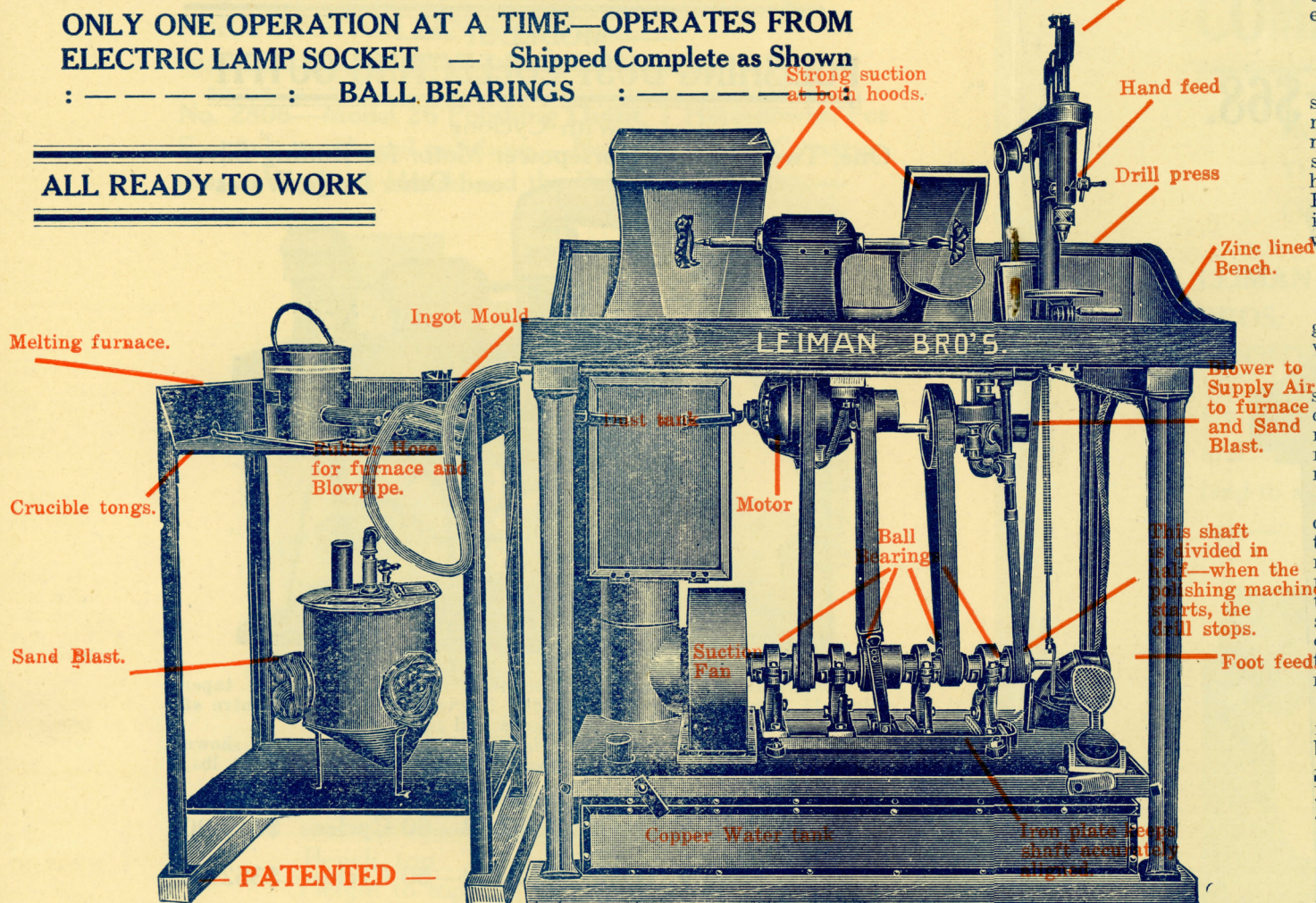
# THE COMPLETE WORKSHOP

**\$340.00**

ONLY ONE OPERATION AT A TIME—OPERATES FROM  
ELECTRIC LAMP SOCKET — Shipped Complete as Shown

: — — — — — : BALL BEARINGS : — — — — —

ALL READY TO WORK



DRILL-CHUCK—for drills 0 to 5-16 inch; face plate to chuck 4 inches; foot and hand lever feed, vertical movement 1½ inches, face plate to chuck, 5½ inches.

BLOWER—Suitable for use with the furnace or sandblast, or with the soldering blowpipe.

SAND BLAST—Suitable for sand blasting all pieces of jewelry up to about 3½ inches in diameter.

FURNACE—Suitable for melting about 2 lbs of metal.

INGOT MOULD—For flat stock 1½x4x¼ inch or 3-16ths inch as desired.

POLISHING—Length of spindle, each side of head including detachable taper points 5½ inches. The right hand side of the spindle is supplied with an extra taper so that it may be shortened to 3½ inches including the point for use in watch-case polishing and other similar work requiring end buffs. Diameter of spindle ¾ inch; height to centre of spindle 7 inches.

We also supply the necessary piece of rubber tubing. One pair 12-in.ch Crucible tongs, sheet asbestos for top of iron table, hand blowpipe and box of sand for sandblast with outfits as above mentioned.

Floor Space Complete about 22x72 inches which includes the separate iron table, furniture and sand blast. Weight for shipment about 550 lbs. crated 630 lbs; boxed 950 lbs., 65 cu. ft.

This complete workshop, as will be noted by referring to the illustration, is made up especially for the use of manufacturers, repairers and retailers. Each operation such as drilling, melting, annealing, oxidizing, soldering, sand blasting, polishing and dust collecting as well as a number of other operations can be performed with this outfit as rapidly and efficiently as the most expensive machine you ever saw

## NEW MODEL

Almost every storekeeper has felt the need at some time or other of a small shop suitable for doing almost any kind of work, but in a great many cases the matter of space forbids the installation of the necessary machines. Then again there are a great many small repairers—not to say manufacturers—who, while finding it mandatory to do their work are hampered by the expensive rental of the necessary space, "THE COMPLETE WORKSHOP" has been designed for the sole purpose of obviating these difficulties, and making it possible to do all sorts of work within the most limited space.

## ONLY ONE OPERATION AT A TIME

In order to secure the same service that this machine is capable of giving it would be necessary to purchase independent machines which would cost a great deal more than this combination outfit costs.

All of the different parts which are supplied with this machine are standard and well constructed and not in any sense experimental. The entire machine is substantially built and nicely finished and only the most satisfactory results can be expected in using this outfit, as it is the result of 35 years of experience in manufacturing metalworkers' machinery

The advantages to be derived from the use of a combination outfit of this kind are many Economy of space is important but economy of time saved in the reduction of useless movements from machine to machine where separate machines are used is of great importance. A few minutes saved at each task means so many minutes that can be devoted to doing some other work. The little drop of water makes the ocean and so the little minutes saved for other work make men rich. Any shop in the country can well afford to install these individual outfits—they're not toys—not by long odds—they are on the contrary, the most substantial machines you ever saw: The weight alone will tell you this.

No matter what you may pay for machinery for your shop the various operations for which these machines are meant cannot be done any better or economically

### No. 2523—Outfit No. 4—

Complete with polishing dust collector, drill, pressure blower, furnace, ingot mould, crucible tongs, sand blast and blowpipe with separate iron table.....**\$340.00**

### No. 2782—Outfit No. 3—

Same as No. 4 Outfit, without the sand blast.....**\$325.00**

### No. 2788—Outfit No. 2—

With polishing dust collector, drill and pressure blower.....**\$301.00**

### No. 2790—Outfit No. 1—

With polishing dust collector and drill.....**\$263.00**

— : COMPLETE SHOP OUTFITTERS : —  
**LEIMAN BROS.**

81 WALKER STREET : — : NEW YORK CITY

MAKERS OF GOOD MACHINERY FOR THIRTY-FIVE YEARS



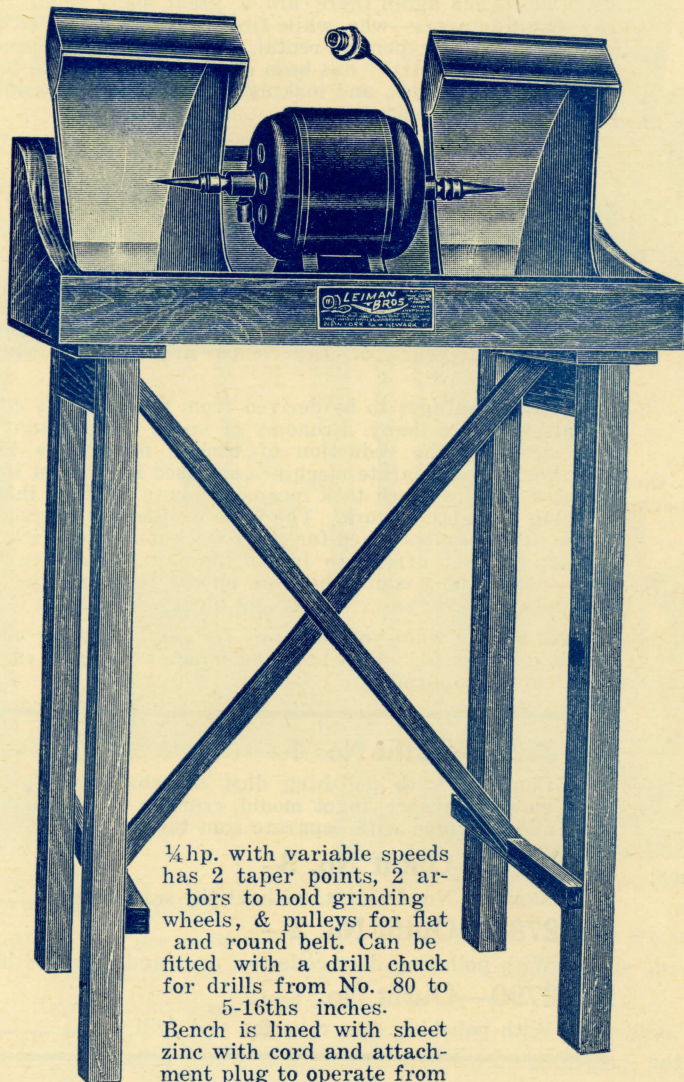
LEIMAN BROS.

# POLISHING DUST

## COLLECTING OUTFIT

— NO. 45 —

\$68.



$\frac{1}{4}$  hp. with variable speeds  
has 2 taper points, 2 ar-  
bors to hold grinding  
wheels, & pulleys for flat  
and round belt. Can be  
fitted with a drill chuck  
for drills from No. .80 to  
5-16ths inches.

Bench is lined with sheet  
zinc with cord and attach-  
ment plug to operate from  
an electric light.

Size of bench 20"x28"—height to bench top 37"—weight about 100 lbs.,  
crated, 120 lbs., boxed, 150 lbs., cubic feet.

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

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MAKERS OF GOOD MACHINERY FOR 35 YEARS



# COMB DRILLING

---

HOLES JUST THE DEPTH YOU WANT—JUST USE  
THE DEPTH GAUGE—JUST THE CURVE OF THE  
COMB IS THE SHAPE OF THE COMB REST ON —

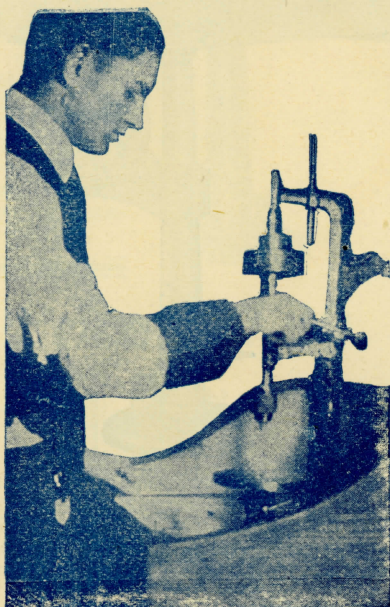
LEIMAN  
BROS.  
SENSITIVE

## DRILL PRESS

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Cuts quick and deep—or slow  
and shallow—you regulate the  
feed to suit by hand or foot pres-  
sure—

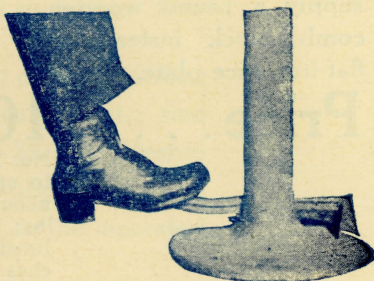
You can use a 5-16  
inch drill or a No 80  
just as you need to  
do—



Sensitive Hand Feed

THE MACHINE HAS THE  
PROPER WEIGHT IN THE VAR-  
IOUS PARTS TO LEND STA-  
BILITY AND STEADINESS TO  
THUS PREVENTING BREAK-  
AGE OF DRILLS.

USED WHEREVER AN ORDIN-  
ARY MACHINE CAN'T GIVE  
THE NECESSARY FEEL TO  
THE DRILL WHEN DOING  
FINE, ACCURATE WORK—AND  
ALWAYS AVAILABLE WITH-  
OUT DANGER OF DAMAGE.



Sensitive Foot Feed.

---

**LEIMAN BROS.**, 81 WALKER ST., NEW YORK CITY

---

MAKERS OF GOOD MACHINERY FOR 35 YEARS



# DRILLING WITH THE FINEST HAIR DRILL

With  
**LEIMAN BROS.**

## **SENSITIVE DRILL PRESS**

is done accurately—from 5-16 down to No. 80 drills may be used with the best results — Don't experiment with drilling machines gotten up to resemble Leiman Bros., make—only long experience can produce a machine like ours — 35 years making Jewelers' machinery guarantees your satisfaction.

### **JEWELERS, COMB MAKERS Manufacturers of NOVELTIES**

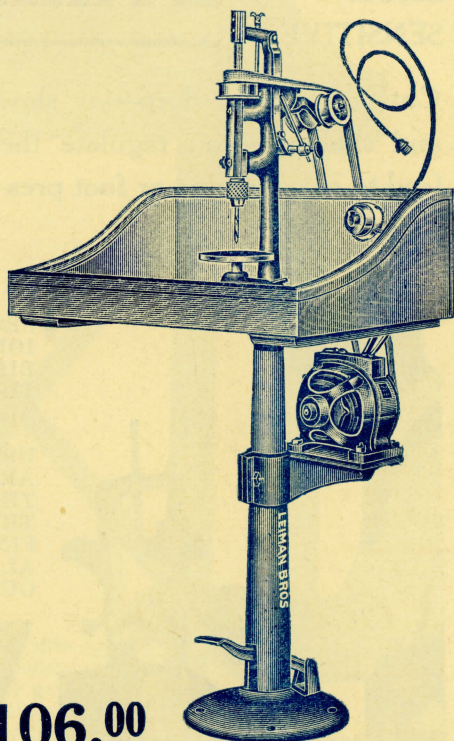
and articles in metal, celluloid wood and other materials will find these machines good, accurate, long wearing drill presses—for drilling and fraizing—hand and foot feed both on the machine — depth guage may be set and locked for quantity drilling to any certain depth. Both hands free to hold the work.

For Comb drilling we supply a round wooden comb block instead of flat iron face plate.

**Price . . . . \$106.00**

No. 2047—Drill press complete with motor, to operate from any electric light—weighs about 160 lbs.; crated 200 lbs.; Boxed 250 lbs; 20 cubic feet. size of box 20x29—zinc lined 5½ inch chuck to face plate, 1½ inches vertical movement.

Electric cord and attachment plug is omitted when machine is not to be operated from a lamp socket.



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**LEIMAN BROS.**  
MAKERS OF GOOD

**81 WALKER ST., NEW YORK CITY**

---

FOR 35 YEARS



**LEIMAN BROS.**

**SENSITIVE DRILL PRESS —**

# **READY FOR YOUR MOTOR**

---



---

No. 2306—Drill Press complete except the motor—ready to have your motor mounted—Hand and foot feed—5-16 to No. 80 drills can be used—depth gauge may be locked for quantity drilling.

---

**Price \$77.00**

The standard drill press in the jewelry trade as well as among comb makers and manufacturers of novelties in metal, celluloid, wood and other materials—

Never buy an imitation when you can get the genuine article for the same money—

It means disappointment if you do.

Our drill press is accurately machined in order to insure correct operation—you can't get correct operation from a machine unless it is accurately machined—the only thing you might gain is a small saving when you get a drill press fit only for other and coarser work than yours.

Weight about 110 lbs.; crated 150 lbs.; boxed 180 lbs.; 20 cubic feet.; zinc lined box about 20 x 29 in.; Electric cord and attachment plug is omitted when machine is not to be operated from a lamp socket—

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

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MAKERS OF GOOD MACHINERY FOR 35 YEARS

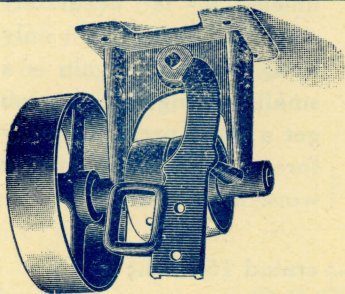
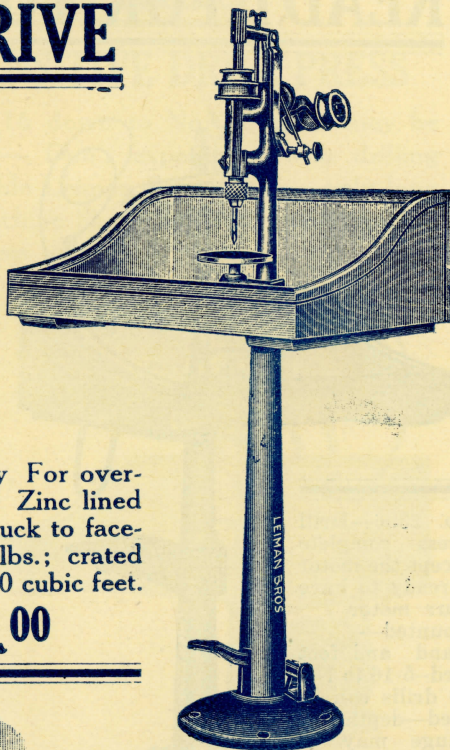


# LEIMAN BROS. SENSITIVE DRILL PRESS — FOR OVERHEAD OR MOTOR DRIVE

this machine is the same as the preceding ones for drilling from 5/16 inch down to No. 80 drill with both hand and foot feed and depth gauge—The Countershaft below may be used in connection with its operation—or it may be run by motor or shaft on ceiling or wall.

**NO. 2046**—Drill press only For overhead shaft or motor drive. Zinc lined box. 20 x 29 in. 5½ in. chuck to faceplate. Weight about 100 lbs.; crated 135 lbs., boxed 185 lbs.; 20 cubic feet.

**Price \$59.00**



**No. 2052** No. 1 countershaft 6 in. drop; 4x1 3/8 loose and tight pulley, 8 x 1 7/8 driving pulley; weight about 30 lbs; crated 35 lbs.; boxed 40 lbs.; 1 cubic foot.

**Price \$10.00**



**No. 2843**—Comb block for use with Leiman Bros. sensitive drill press instead of flat faceplate for combs and other curved surfaces.

**Price \$3.00**

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY  
MAKERS OF GOOD MACHINERY FOR 35 YEARS

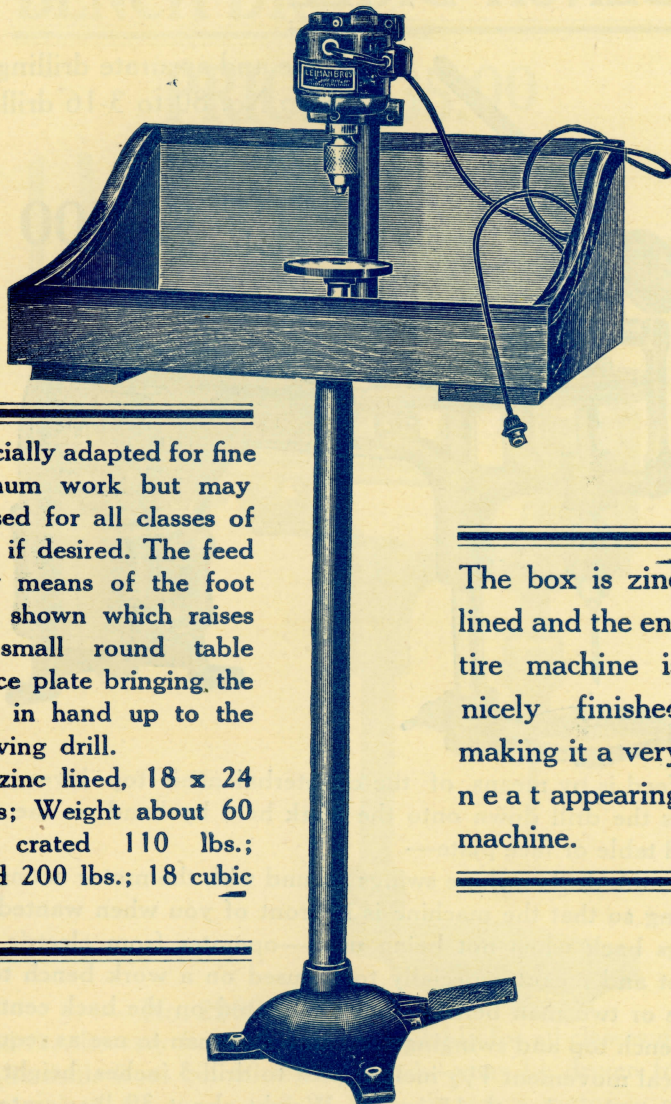


**LEIMAN BROS. SENSITIVE —**

**DIRECT DRIVE— MOTOR DRILL**

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**Holds Drills from No. 80 to 5-16—No. 2853**



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Especially adapted for fine platinum work but may be used for all classes of work if desired. The feed is by means of the foot lever shown which raises the small round table or face plate bringing the work in hand up to the revolving drill.

Box zinc lined, 18 x 24 inches; Weight about 60 lbs.; crated 110 lbs.; boxed 200 lbs.; 18 cubic feet.

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The box is zinc lined and the entire machine is nicely finished making it a very neat appearing machine.

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

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MAKERS OF GOOD MACHINERY FOR 35 YEARS



LEIMAN BROS.

# SWIVEL MOTOR BENCH DRILL

For fine and accurate drilling—  
from No 80 to 3-16 drills.

— NO. 2901 —

PRICE \$60.00



The feed is by means of the counterbalanced top lever which brings the drill down onto the work held by hand on the small round table or face plate—

The entire drill machine swings around with the motor acting as a bearing so that the machine is in front of you when wanted and swings back when not being used—operates from electric light socket and meant especially to be used on a work bench top—single or two man bench—being mounted on the back centre of the bench top and swinging over to either man to use as required. Vertical movement  $1\frac{1}{2}$  inches; post to drill 3 inches; height over all 13 inches, length 18 inches. Weight about 30 lbs, crated 40 lbs; boxed 50 lbs, 1 cubic feet.

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY  
MAKERS OF GOOD MACHINERY FOR 35 YEARS

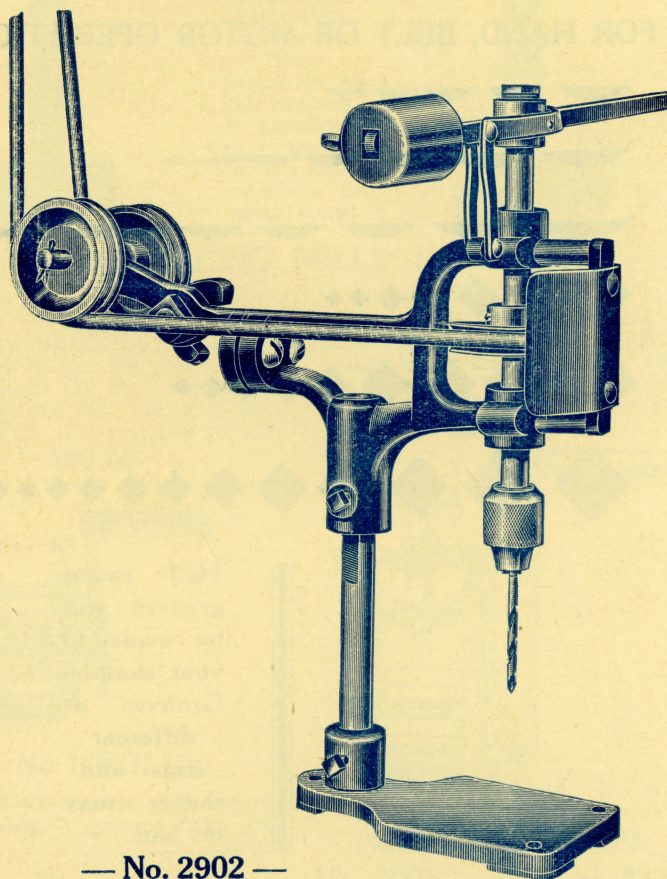
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LEIMAN BROS.

# MIDGET SENSITIVE BENCH DRILL

PRICE \$35.00



— No. 2902 —

Used for the very finest work but available for all classes of work  
Holds drills from No 80 to 3/16 inch—may be driven from an  
overhead shaft or mounted on a bench with a motor—

1½ inches vertical feed, post to drill 3 inches, height 13 inches.  
Weight about 10 lbs; crated 20 lbs, boxed 30 lbs; 1 cubic foot.

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

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MAKERS OF GOOD MACHINERY FOR 35 YEARS

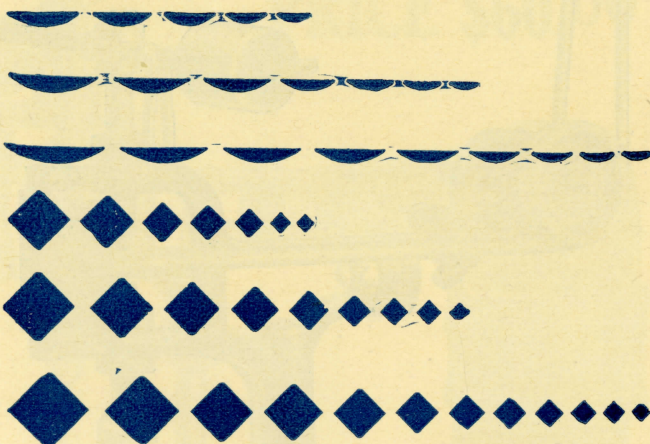


LEIMAN BROS.

**JEWELERS'**

**ROLLING MILLS**

FOR HAND, BELT OR MOTOR OPERATION



Half round  
grooves will  
be made to  
your sample.  
Grooves of  
different  
sizes and  
shapes may  
be had.

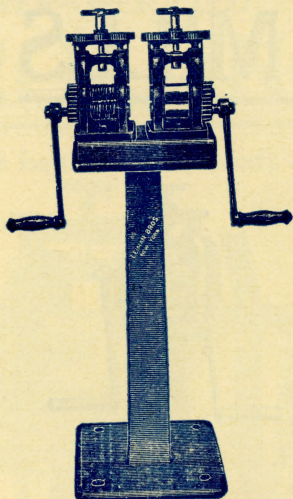
SIZE AND SHAPE OF GROOVES FURNISHED ON OUR ROLLING  
MILLS WHEN SO ORDERED

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

MAKERS OF GOOD MACHINERY FOR 35 YEARS



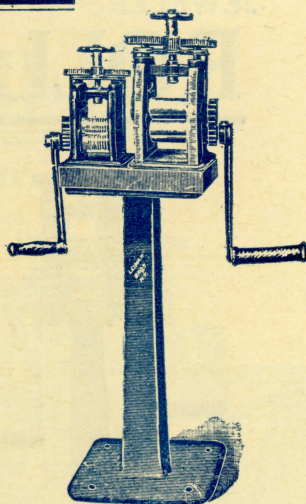
## HAND OPERATED ROLLING MILLS



— SINGLE —  
GEARED  
With iron  
column.

For roll-  
ing gold, silver  
platinum,  
brass, copper,  
aluminum and  
other metals in  
the same man-  
ner as the  
other mills.

These  
machines, as  
can be seen,  
are practically  
two in one and  
are very handy  
machines in  
small space.



### DOUBLE ROLLING MILLS (hand power)

#### No. 2462

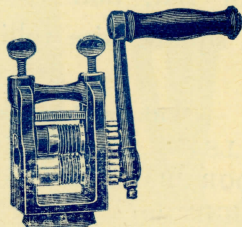
NO. 12 ROLLING MILLS  
Rolls  $1\frac{1}{2} \times 2$  in. For flat wire rolling.  
Weight about 110 lbs.; crated 160  
lbs.; boxed 200 lbs.; 10 cubic feet.  
Square Wire Grooves .210 to .030

**\$95.00**

#### No. 2461

NO. 11 ROLLING MILLS  
Flat rolls  $2 \times 3$  in. Wire rolls  $1\frac{1}{2} \times 2$  in.  
weight about 130 lbs., crated 180  
lbs., boxed 270 lbs., 10 cubic feet.  
Square Wire Grooves .210 to .030

**\$104.00**



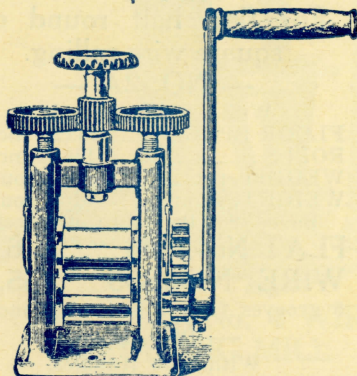
#### No 1 ROLL

No. 2143—With flat and square  
grooves only 8 grooves from .067  
to .020 .....\$33.00

No. 2006 — With corrugation strip  
also .....\$35.00  
Rolls  $1\frac{1}{4} \times 2$  inches. Weight about  
10 lbs.; crated 10 lbs; boxed 10 lbs.;  
1 cubic foot.

(Fastens in a vise.)

**\$35.00**



#### No. 1B FLAT ROLL

No. 2005—as shown...**43.00**

No. 2142—Mounted on iron  
column .....\$54.00

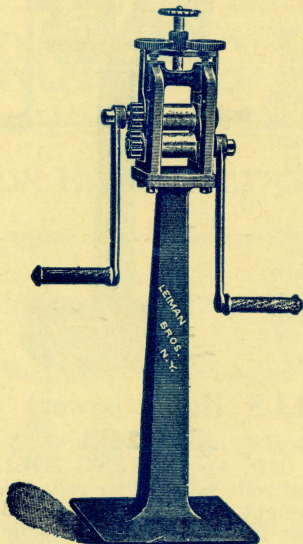
Size of rolls  $2 \times 3$  in. Weight with  
column 150 lbs. Crated 200 lbs.;  
boxed 250 lbs.; 10 cubic feet. With-  
out column 60 lbs., crated 75 lbs.;  
boxed 100 lbs., 2 Cubic feet.

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY  
MAKERS OF GOOD MACHINERY FOR 35 YEARS



LEIMAN BROS.  
JEWELERS'

# ROLLING MILLS



**No. 2 AND 2A ROLLS**  
For flat, half round or  
square wire rolling.

— NO. 2A —

With one handle only

FLOOR SPACE ..... 14x20 inches  
ROLLS .....  $1\frac{1}{2}$ x2 inches  
WEIGHT, net ..... 65 pounds  
WEIGHT, shipping ..... 100 pounds  
Boxed, 200 lbs.—10 Cubic feet.

**FLAT No.-2894.....\$46.00**

**WIRE No.-2895.....\$55.00**

8 grooves from .210 to .030 inches

— NO. 2 —

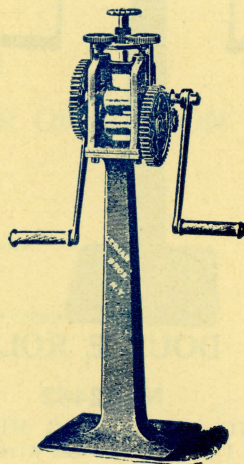
With Two Handles.

FLOOR SPACE ..... 14x26 inches  
ROLLS .....  $2\frac{1}{4}$ x3 inches  
WEIGHT, net.....150 pounds  
WEIGHT, shipping.....200 pounds  
Boxed 275 lbs. 10 Cubic feet.

**FLAT No.-2003.....\$63.00**

**WIRE No.-2135.....\$75.00**

10 grooves from .261 to .036 inches



**No. 3 ROLLS**  
For flat, half round or  
square wire rolling.

With two handles.

ROLLS .....  $2\frac{1}{4}$ x3 inches  
FLOOR SPACE ..... 14x26 inches  
WEIGHT, net.....170 pounds  
WEIGHT, shipping ..... 200 pounds

Boxed 275 lbs., 10 cubic feet.

**FLAT No.-2002.....\$81.00**

**WIRE No.-2127.....\$93.00**

10 grooves from .261 to .036 inches

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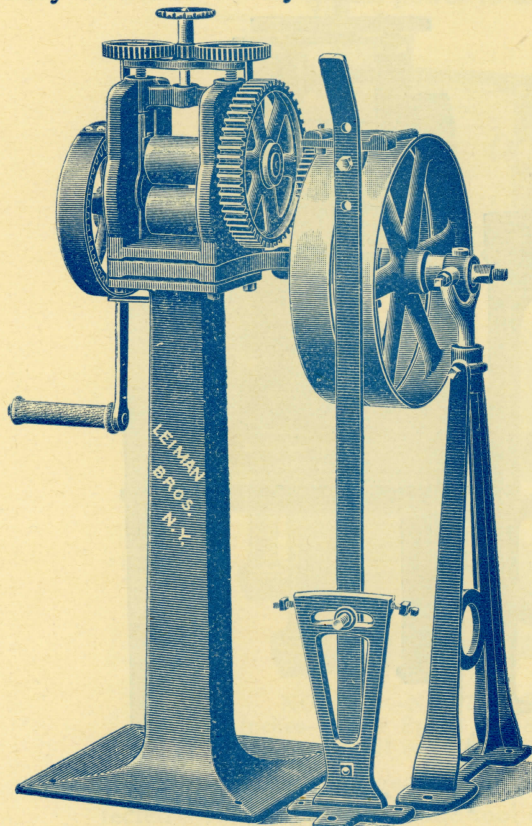


LEIMAN BROS.

POWER OPERATED

# ROLLING MILLS

May be belted to any shaft or countershaft or to a motor.

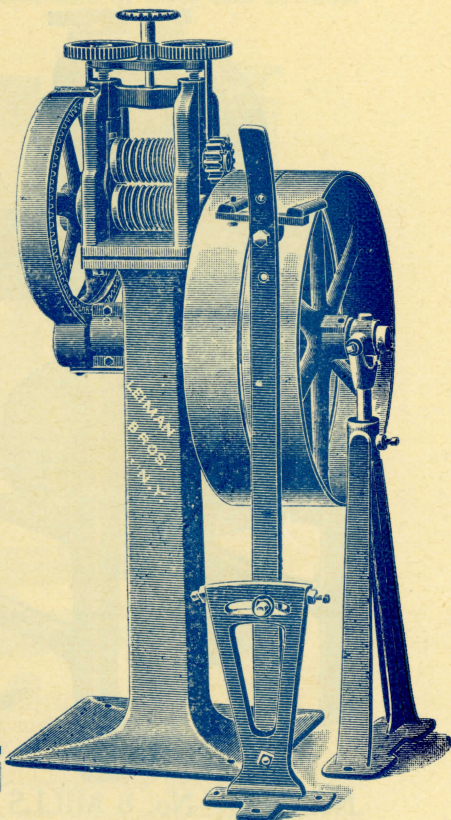


**No. 2000—No. 5 FLAT  
ROLLING MILL**

**\$210.00**

ROLLS—2 $\frac{3}{4}$  in. diam., 4 $\frac{1}{4}$  in. long.  
SPEED of shaft, 150 R. P. M.  
PULLEYS—12 in. diam., 2 $\frac{1}{2}$  in.  
face.  
FLOOR SPACE—20 x 24 in.  
WEIGHT—310 lbs. (shipping,  
400 lbs.)

BOXED—500 lbs., 15 Cubic feet.



**No. 2001—No. 4 WIRE  
ROLLING MILL**

**\$175.00**

ROLLS—2 $\frac{3}{4}$  x 4 $\frac{1}{4}$  inches  
SPEED of shaft 100 R. P. M.  
PULLEYS—18 x 2 $\frac{1}{2}$  in.  
FLOOR SPACE—22 x 24 in.  
WEIGHT—(net) 290 lbs.  
WEIGHT—(shipping) 380 lbs.  
BOXED—500 lbs., 15 Cubic feet.  
13 grooves from .265 to .045 inches

**LEIMAN BROS.**

MAKERS OF GOOD MACHINERY FOR 35 YEARS

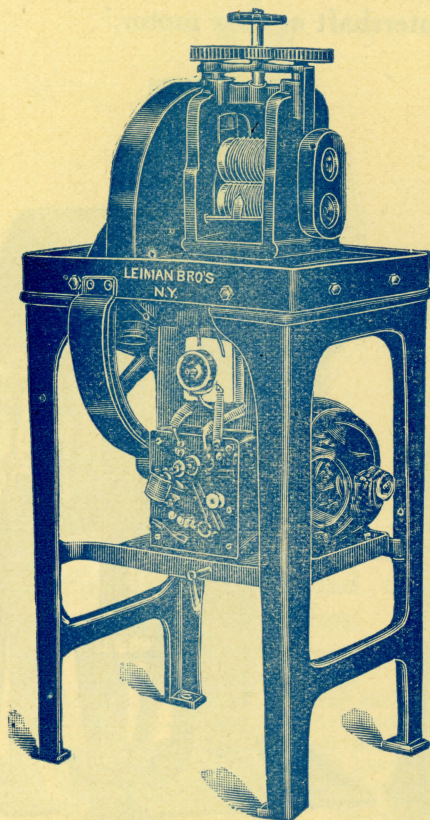
**81 WALKER ST., NEW YORK CITY**



LEIMAN BROS. MOTOR DRIVEN —

# ROLLING MILLS

Neat and Compact in Construction—Power transmitted directly to the machine by the accurately cut gears



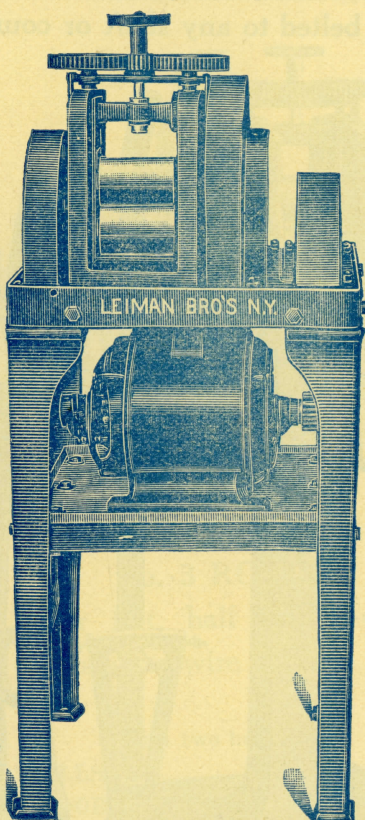
**No. 2459—No. 8 MILLS**

**\$390.00**

For Square Wire Rolling  
With Motor

Rolls  $2\frac{3}{4}$  x  $4\frac{1}{4}$  inches—Floor space  
16 x 20 inches.

13 grooves from .265 to .045 inches  
Weight about 525 lbs, crated 600  
lbs. Boxed 650 lbs, 16 cubic feet.



**No. 2460—No. 9 MILLS**

**\$425.00**

With Motor  
For Flat Rolling

Rolls  $2\frac{3}{4}$  x  $4\frac{1}{4}$  inches—Floor space  
16 x 20 inches.

Weight about 525 lbs; crated 600  
lbs. Boxed, 650 lbs., 16 cubic feet.

**THE No. 4 & No. 5 ROLLING MILLS CAN ALSO BE  
SUPPLIED WITH MOTORS ATTACHED IF DESIRED**

**LEIMAN BROS.**

**81 WALKER ST., NEW YORK CITY**

**MAKERS OF GOOD MACHINERY FOR 35 YEARS**

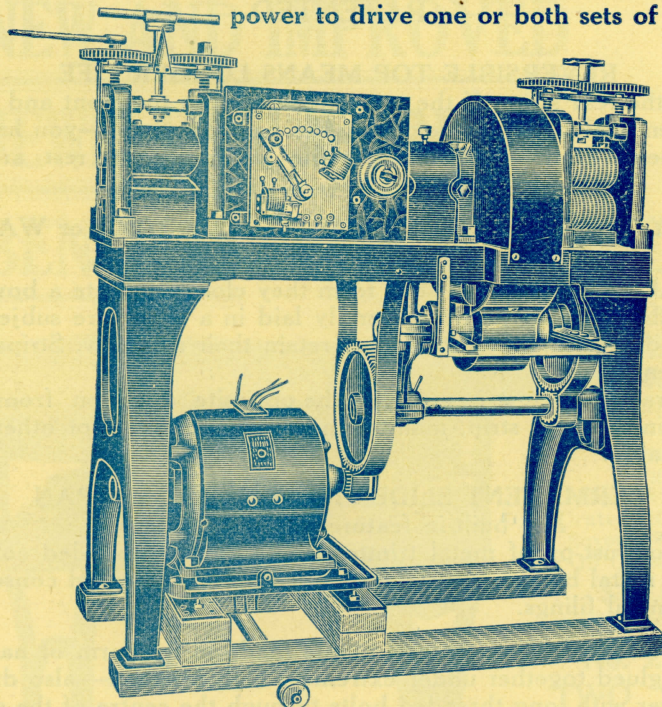


LEIMAN BROS.

# TANDEM ROLLS

**\$890.00**

— FOR FLAT AND SQUARE WIRE ROLLING —  
A Big, powerful machine with rolls 3 inches thick, 5 inches wide,  
19 grooves in wire rolls .307 to .040. The Motor with enough  
power to drive one or both sets of rolls.



NO. 2458—NO. 7 ROLLING MILL

Rolls 3x5 inches—Floor Space 23x48 inches—Complete with Motor  
all set up ready to wire.

Starting and stopping gear—clutch—noiselessly geared and protected—rolls of highest grade tool steel obtainable—scientifically and deeply hardened, accurately ground and highly polished—minimum strain through well planned gearing system used—elevating gears to raise and lower the rolls, with indicators to prevent overloading—The toggles on the flat rolls permit wide opening as well as smooth even rolling—35 years experience in roll making behind these machines and fully guaranteed in every respect—No skimping on material or workmanship—Housing with big safety factor for strenuous rolling—

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

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MAKERS OF GOOD MACHINERY FOR 35 YEARS



**LEIMAN BROS.**

**NEW AND IMPROVED JEWELERS**

# **WORK BENCHES**

**PATENTED**

## **REVERSIBLE TOP MEANS LONGER LIFE**

Take the rear strip off the top and put it on the front and turn the bench all around—reversing the pan and draw—you have a new bench front—new holes for file pin and arm rest are all there.

## **WHY THE TOP CAN'T SPLIT, COME APART or WARP**

A frequent occurrence with one piece tops.

**BECAUSE** made in the strip form they closely imitate a bowling alley floor. These floors, generally laid in a cellar are subject to cellar dampness—but they must retain their accuracy. Strips like our bench tops do it.

The grain in each strip pulls in the opposite direction from the grain in the next strip, maintaining a neutral level not otherwise obtainable.

## **PERMANENT SLIDES for DRAWER and PAN**

Are built-in features of the iron legs.

**PAN** of rust-proof metal trimmed with wood. Rounded corners of the metal bottom and edges embedded in the wood conserves your metal filings.

**TOPS** of hard, close-grained maple made in the form of narrow strips glued together under extremely high pressure—also drawn together with long threaded bolts through the centre of the strips from front to rear of the bench. The strips never can come apart, split or warp. The bolts may be tightened at will.

**THE BIG DRAWER**, full width of the bench, gives much needed space for tools.

Lower legs detachable for shipping.

**We Also Manufacture complete Motor Driven Outfits for —**

Rolling Metals  
Polishing Metals  
Polishing Dust  
Collecting  
Drilling  
Grinding

Cutting and Polishing  
Gem Stones  
Sand Blasting  
Melting and Annealing  
Soldering and  
Oxidizing.

Complete workshops and factories, all sizes  
supplied right out of stock.

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

**MAKERS OF GOOD MACHINERY FOR 35 YEARS**



# NOW READY!

(DISPLACING THE FORMER STYLE)

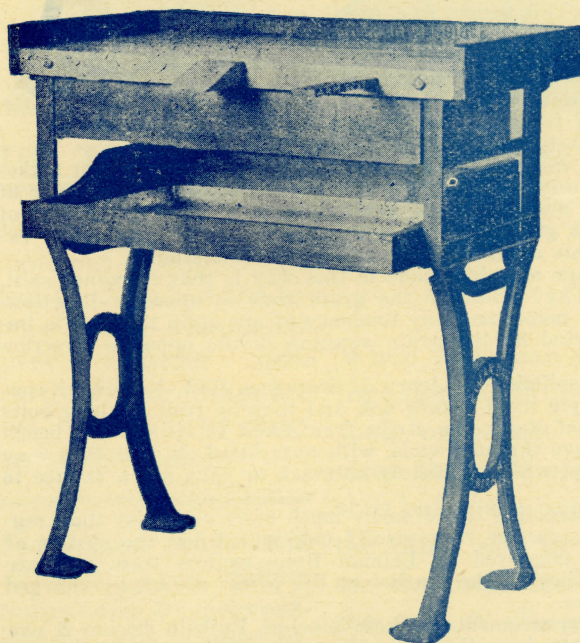
**LEIMAN BROS.**

## NEW AND IMPROVED

## JEWELERS' WORK

## BENCHES

NEW MODEL



### No. 2901 ONE SEAT BENCH

Size 17x31 inches  
2 inches thick.  
33 inches high  
Weight  
about 80 lbs.  
Crated 100 lbs,  
Boxed 130 lbs,  
10 Cubic feet

**\$16.00**

### No. 2902 TWO SEAT BENCH

The 2 Seat Bench  
has two legs with  
bracket between  
the two seats.  
Size 17 x 52 inches.  
Weight about  
double the one  
seat bench.  
20 Cubic feet.

**\$26.00**

**REVERSIBLE BOWLING ALLEY TOP**  
—PATENTED—

**FILE PIN AND ARM REST AT EACH SEAT**

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY

MAKERS OF GOOD MACHINERY FOR 35 YEARS



LEIMAN BROS. NEW MODEL —

## JEWELERS' WORK BENCH

Reversible tops of hard Maple Strips—The newly patented non-curling splitting construction.—



### No. 2902—Two Seat Work Bench ..... \$26.00

*For weights and measures—see preceding page.*

This bench, first of all, is in reality 2 benches, inasmuch as the back and front of the bench top are identical. It is only necessary to unscrew the combing from the back and put it on the front, turn the bench completely around and a new working front is revealed with a file pin and arm rest hole precisely as the old front had.

This alone is a very valuable feature in a work bench inasmuch as it makes the bench twice as useful—but this is not all. The top itself is made of hard, close-grained maple, not, as heretofore, of a single piece, but of strips one inch thick glued together with cabinet makers' glue under extreme pressure. This assures a permanent job of joining.

The first advantage of a top made in this way is that it cannot split, crack, or warp. Why? Because the grain runs in opposite directions in each piece of the maple and any tendency of one strip to warp is immediately counteracted by the grain running in the opposite direction in the next strip.

The cracking or splitting tendency is overcome, first, by proper conditioning of the maple itself before use, and then by running long bolts through the center of the maple strips from front to rear of the bench top. These bolts have threaded ends, with nuts fitted, so that they may be kept tightened up, when absolutely no crack or split has a chance to assert itself.

This form of construction is ordinarily much more expensive than regular construction, as can be very readily understood, but the system of bench manufacture employed by Leiman Bros. enables them to place these improved benches on the market at the prices ordinarily charged for old style benches.

There are other improvements in these benches. Built-in drawer & pan slides, an enlarged top draw the full width of the bench which gives the workman ample room for all purposes, iron legs that are quickly detachable, being made in sections—which means especial economy in shipping. Then, too, the lower metal pan has rounded corners so that all filings are easily and quickly removed without the use of the old-style filing cup and holes in the pan. The edges of the metal are embedded in the wood frame of the pan so that filings cannot find lodgment between the metal and the wood.

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**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY  
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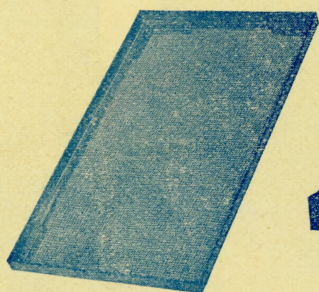


LEIMAN BROS.

## JEWELERS' TOOL TRAYS

: FOR THE WORK BENCH PAN :

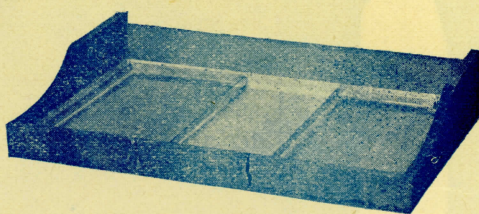
The tray is made of wire cloth bound in metal—size 9x15 inches. The edges are turned up all around and there is a suitable clearance underneath.



**THE TOOL TRAY**

When you lift your tools out of your bench pan to clean out the filings what happens? Ever consider how much of your filings are lost in this way by clinging to the tools?

These pan trays will certainly save dollars continually by preventing the loss of your filings. So don't consider the little cost, consider what they will do—



**TWO IN EACH PAN  
LIKE THIS —**

When you clean your pan of filings simply lift one tool tray with tools over onto the other tray clean that side of the pan—now shift both pans together and clean the other side of the pan—you see the tools don't come out of the pan at all—and when you drop a tool into the tray the filings fall through the wire mesh into the pan underneath.

**No. 2524—TWO TO EACH PAN.....\$2.00 A PAIR**

**LEIMAN BROS.** 81 WALKER ST., NEW YORK CITY  
MAKERS OF GOOD MACHINERY FOR 35 YEARS